

Test Procedure for §170.304 (c) Record demographics

This document describes the draft test procedure for evaluating conformance of complete EHRs or EHR modules to the certification criteria defined in 45 CFR Part 170 Subpart C of the Interim Final Rule (IFR) as published in the Federal Register on January 13, 2010. The document is organized by test procedure and derived test requirements with traceability to the normative certification criteria as described in the Overview document located at http://healthcare.nist.gov/docs/TestProcedureOverview_v1.pdf. These test procedures will be updated to reflect the certification criteria defined in the ONC Final Rule.

CERTIFICATION CRITERIA

§170.304 (c) Record demographics. Enable a user to electronically record, modify, and retrieve patient demographic data including preferred language, insurance type, gender, race, ethnicity, and date of birth.

INFORMATIVE TEST DESCRIPTION

This section provides an informative description of how the test procedure is organized and conducted. It is not intended to provide normative statements of the certification requirements.

This test evaluates the capability for a Complete EHR or EHR Module¹ to enable a user to electronically record, modify, and retrieve a patient's demographic data describing their preferred language, insurance type, gender, race, ethnicity, and date of birth. Per the IFR criteria, the test procedure does not evaluate the ability to record, modify and retrieve other types of patient demographic information.

This test procedure is organized into three sections:

- Record - evaluates the capability to enter patient demographic data into the EHR
 - The Tester enters the NIST-supplied patient preferred language, insurance type, gender, race, ethnicity, and date of birth
- Modify – evaluates the capability to correct/update patient demographic data that have been previously entered into the EHR
 - The Tester displays the patient preferred language, insurance type, gender, race, ethnicity, and date of birth data entered during the Record Patient Demographics test
 - The Tester corrects/updates the previously entered demographics data using NIST-supplied patient preferred language, insurance type, gender, race, ethnicity, and date of birth data
 - Please note – The test procedure is silent on the policy of retaining previously entered information into the EHR

¹ Department of Health and Human Services, 45 CFR Part 170 Proposed Establishment of Certification Programs for Health Information Technology, Proposed Rule, March 10, 2010.

- **Retrieve** – evaluates the capability to display and view the patient demographic data that have been previously entered into the EHR
 - The Tester displays the patient preferred language, insurance type, gender, race, ethnicity, and date of birth data entered during the test
 - The Tester validates that the displayed demographic data are accurate and complete

REFERENCED STANDARDS

None

NORMATIVE TEST PROCEDURES

Derived Test Requirements

DTR170.304.c – 1: Electronically Record Patient Demographics

DTR170.304.c – 2: Electronically Modify Patient Demographics

DTR170.304.c – 3: Electronically Retrieve Patient Demographics

DTR170.304.c – 1: Electronically Record Patient Demographics

Required Vendor Information

VE170.304.c – 1.01: Vendor shall identify the EHR function(s) that are available to: 1) enter a patient's preferred language, insurance type, gender, race, ethnicity, and date of birth, 2) modify these demographic data, and 3) retrieve these demographic data

Required Test Procedure:

TE170.304.c – 1.01: Tester shall select patient demographic data from NIST-supplied test data sets

TE170.304.c – 1.02: Using the EHR function(s) identified by the Vendor, the Tester shall enter demographic data from the test data sets, including

- the patient's preferred language
- the patient's insurance type
- the patient's gender
- the patient's race
- the patient's ethnicity
- the patient's date of birth

TE170.304.c – 1.03: Using the NIST-supplied Inspection Test Guide, the Tester shall verify that the patient demographic test data have been entered correctly and without omission

Inspection Test Guide

IN170.304.c – 1.01: Tester shall verify that the patient demographic test data are entered correctly and without omission

IN170.304.c – 1.02: Tester shall verify that the patient demographic data entered during the test are stored in the patient's record, including

- the patient's preferred language
- the patient's insurance type
- the patient's gender
- the patient's race
- the patient's ethnicity
- the patient's date of birth

DTR170.304.c – 2: Electronically Modify Patient Demographics

Required Vendor Information

- As defined in DTR170.304.c – 1, no additional information is required

Required Test Procedure:

TE170.304.c – 2.01: Tester shall select patient demographic test data from NIST-supplied test data sets

TE170.304.c – 2.02: Using the EHR function(s) identified by the Vendor, the Tester shall select the patient record used for the Record Patient Demographics test, shall display the patient demographic data entered during the Record Patient Demographics test, and shall correct/update these demographic data, including

- the patient's preferred language
- the patient's insurance type
- the patient's gender
- the patient's race
- the patient's ethnicity
- the patient's date of birth

TE170.304.c – 2.03: Using the NIST-supplied Inspection Test Guide, the Tester shall verify that the patient demographic data entered in the Modify Patient Demographics test have been entered correctly and without omission

Inspection Test Guide:

IN170.304.c – 2.01: Tester shall verify that the patient demographic data entered during the Record Patient Demographics test can be accessed and corrected/updated

IN170.304.c – 2.02: Tester shall verify that the modified demographic data are stored in the patient's record, including

- the patient's preferred language
- the patient's insurance type

- the patient's gender
- the patient's race
- the patient's ethnicity
- the patient's date of birth

DTR170.304.c – 3: Electronically Retrieve Patient Demographics

Required Vendor Information

- As defined in DTR170.304.c – 1, no additional information is required

Required Test Procedure:

TE170.304.c – 3.01: Using the EHR function(s) identified by the Vendor, the Tester shall select the patient record used for the Record Patient Demographics test and shall display the patient demographic data entered during the Record and Modify Patient Demographics tests, including

- the patient's preferred language
- the patient's insurance type
- the patient's gender
- the patient's race
- the patient's ethnicity
- the patient's date of birth

TE170.304.c – 3.02: Using the NIST-supplied Inspection Test Guide, the Tester shall verify that the patient demographic test data display correctly and without omission

Inspection Test Guide

IN170.304.c – 3.01: Tester shall verify that the patient demographic data entered in the Record Patient Demographics test and corrected/updated in Modify Patient Demographics test display correctly and without omission, including

- the patient's preferred language
- the patient's insurance type
- the patient's gender
- the patient's race
- the patient's ethnicity
- the patient's date of birth

EXAMPLE TEST DATA

Data Set 1:

Record Demographics

Data Type	Data
Preferred Language	English
Insurance Type	Medicaid
Gender	Female
Race	White
Ethnicity	Not Hispanic or Latino
Date of Birth	05/26/1952

Modify Demographics

Modify each of the demographic data types with new demographic data.

Data Type	Data
Preferred Language	Spanish
Insurance Type	Medicare
Gender	Male
Race	African American
Ethnicity	Hispanic or Latino
Date of Birth	07/27/1925

Data Set 2:

Record Demographics

Data Type	Data
Preferred Language	Japanese
Insurance Type	Commercial
Gender	Female
Race	Asian
Ethnicity	Not Hispanic or Latino
Date of Birth	04/30/1945

Modify Demographics

Modify each of the demographic data types with new demographic data.

Data Type	Data
Preferred Language	English
Insurance Type	Medicaid
Gender	Male
Race	White
Ethnicity	Hispanic or Latino
Date of Birth	04/03/1945

Data Set 3:

Record Demographics

Data Type	Data
Preferred Language	French
Insurance Type	Medicaid
Gender	Male
Race	Asian
Ethnicity	Not Hispanic or Latino
Date of Birth	02/27/1980

Modify Demographics

Modify each of the demographic data types with new demographic data.

Data Type	Data
Preferred Language	Spanish
Insurance Type	Commercial
Gender	Female
Race	African American
Ethnicity	Hispanic or Latino
Date of Birth	03/27/1980

Data Set 4:

Record Demographics

Data Type	Data
Preferred Language	Italian
Insurance Type	Managed Care
Gender	Male
Race	White
Ethnicity	Hispanic or Latino
Date of Birth	09/17/1975

Modify Demographics

Modify each of the demographic data types with new demographic data.

Data Type	Data
Preferred Language	Spanish
Insurance Type	Self-pay
Gender	Female
Race	Native Hawaiian
Ethnicity	Not Hispanic or Latino
Date of Birth	09/27/1965

Data Set 5:

Record Demographics

Data Type	Data
Preferred Language	Portuguese
Insurance Type	Medicare
Gender	Female
Race	White
Ethnicity	Hispanic or Latino
Date of Birth	09/17/1975

Modify Demographics

Modify each of the demographic data types with new demographic data.

Data Type	Data
Preferred Language	Russian
Insurance Type	Self-pay
Gender	Female
Race	Native Hawaiian
Ethnicity	Not Hispanic or Latino
Date of Birth	09/27/1965

CONFORMANCE TEST TOOLS

None